

We claim:

- 1 1. An ear probe tip for the end of a probe which can be inserted into an ear canal,
2 the ear probe tip comprising:
3 a body portion having an inner surface, an outer surface, a first end and a
4 second end, the inner surface defining a passage that extends the entire length of the body
5 portion; and
6 a plurality of flexible annular flanges disposed at spaced intervals on the outer
7 surface of the body portion.
- 1 2. The ear probe tip of claim 1 wherein the body portion is tube shaped.
- 1 3. The ear probe tip of claim 1 wherein one of the plurality of flanges is located
2 proximal the first end and is disposed on the body portion at a distance from the first end.
- 1 4. The ear probe tip of claim 1 wherein the plurality of flexible annular flanges
2 have increasingly larger diameters toward the second end.
- 1 5. The ear probe tip of claim 4 wherein the plurality of flanges are disposed on
2 the body portion at a backward angle toward the second end.
- 1 6. The ear probe tip of claim 4 further comprising a means for pushing the tip
2 onto the probe.
- 1 7. The ear probe tip of claim 6 wherein the means for pushing the tip onto the
2 probe is a ring disposed on the body portion proximal the second end.
- 1 8. The ear probe tip of claim 4 wherein the body portion outer surface diameter
2 increases along the length of the body portion toward the second end.
- 1 9. The ear probe tip of claim 4 wherein the second end further includes a chamfer
2 adjacent the body portion inner surface.
- 1 10. The ear probe tip of claim 4 wherein the tube and the flanges are constructed
2 of a transparent material.
- 1 11. The ear probe tip of claim 4 wherein the tube and the flanges are constructed
2 of alpha gary pvc 3019-40/45.
- 1 12. The ear probe tip of claim 4 wherein the body portion inner surface is
2 dimensioned to receive the probe end.
- 1 13. The ear probe tip of claim 4 wherein the body portion first end outer diameter
2 is between 0.140 and 0.185 inches.

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1 14. The ear probe tip of claim 4 wherein the body portion first end inner surface
2 further comprises a flange.

1 15. An ear probe tip for the end of a probe which can be inserted into an ear canal,
2 the ear probe tip comprising:

3 a body portion having an inner surface, an outer surface, a first end and a
4 second end, the inner surface defining a passage that extends the entire length of the body
5 portion; and

6 a means for creating an acoustical seal between the ear tip and the ear canal,
7 disposed at spaced intervals on the outer surface of the body portion.

1 16. A method for acoustically sealing an ear canal with an ear probe tip positioned
2 over a probe end which comprises the steps of:

3 providing the ear probe tip;

4 placing the ear probe tip substantially over the probe end whereby the probe
5 end does not extend past the ear probe tip;

6 inserting the probe end with the ear tip into the ear canal; and

7 flexing the ear probe tip so that an acoustical seal forms between the ear probe
8 tip and the ear canal.

1 17. An ear probe tip for the end of a probe which can be inserted into an ear canal,
2 said ear probe tip comprising:

3 a body portion having an inner surface, an outer surface, a first end and a
4 second end, the inner surface defining a passage that extends the entire length of the body
5 portion; and

6 at least one flexible annular flange disposed on the outer surface of the body
7 portion.

1 18. The ear probe tip of claim 17 wherein the at least one flange located proximal
2 the first end is disposed on the body portion at a distance from the first end.

1 19. The ear probe tip of claim 17 wherein the body portion outer surface diameter
2 increases along the length of the body portion toward the second end.

1 20. The ear probe tip of claim 17 wherein the at least one flange is disposed on the
2 body portion at a backward angle toward the second end.

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1 21. The ear probe tip of claim 17 wherein the inner surface diameter of the body
2 portion increases in size along the length of the body portion toward the second end.

1 22. The ear probe tip of claim 17 wherein the inner surface diameter of the body
2 portion increases in size along the length of the body portion toward the second end and
3 communicates with a cavity located proximal the second end.

1 23. The ear probe tip of claim 22 further comprising a means for pushing the tip
2 onto the probe.

1 24. The ear probe tip of claim 23 wherein the means for pushing the tip onto the
2 probe is a ring disposed on the body portion proximal the second end.

1 25. An ear probe tip for the end of a probe which can be inserted into an ear canal,
2 said ear probe tip comprising:

3 a body portion having an inner surface, an outer surface, a first end and a
4 second end, wherein the outer surface has a diameter which increases along the antecedent
5 length of the body portion toward the second end; and

6 a passage defined by the inner surface that extends substantially the length of
7 the body portion.

1 26. The ear probe tip of claim 25 wherein the passage has a diameter which
2 increases from the first end to the second end.

1 27. The ear probe tip of claim 26 further comprising a means for pushing the tip
2 onto the probe.

1 28. The ear probe tip of claim 27 wherein the means for pushing the tip onto the
2 probe is a ring disposed on the body portion proximal the second end.

1 29. The ear probe tip of claim 25 wherein the inner surface diameter of the body
2 portion increases in size near the second end.

1 30. An ear probe tip for the end of a probe which can be inserted into an ear canal,
2 said ear probe tip comprising:

3 a body portion having an inner surface, an outer surface, a first end and a
4 second end, wherein the inner surface diameter of the body portion increases in size near the
5 second end; and

6 a ring disposed on the outer surface of the body portion proximal the second end.

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- 1 31. The ear probe tip of Claim 30 further comprising at least one flexible annular
2 flange disposed on the outer surface of the body portion at a distance from the first end.

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